

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1 1. (Currently amended): An optical mouse system comprising ~~a printed~~
2 ~~circuit board, the optical mouse system further comprising:~~
3 a printed circuit board having a plurality of circuits disposed thereon, including a
4 detection circuit;
5 a contact pad comprising a plurality of stationary contacts disposed on a major
6 surface of said printed circuit board ~~of said optical mouse system;~~
7 a ball contact movably disposed atop said stationary contacts of said contact pad;
8 and
9 a housing enclosing said ball contact and a portion of said contact pad, said
10 housing ~~sealably~~ disposed on said major surface of said printed circuit board ~~of said optical~~
11 ~~mouse system and encasing said ball and contact pad,~~ at least two of said stationary contacts
12 extending along said major surface beyond an interior of said housing from between said housing
13 and said major surface~~[[; and]]~~.
14 [[a]]the detection circuit connected to said at least two of said stationary contacts
15 ~~and having a trigger signal output.~~

2. (Canceled)

1 3. (Previously presented): The system of claim 1, wherein said trigger
2 signal output is a wake-up signal output.

4. (Canceled)

1 5. (Previously presented): The system of claim 1, wherein said contact pad
2 and said ball contact constitute a mechanical motion sensor.

1 6. (Previously presented): The system of claim 5, wherein said contact pad
2 and said ball contact constitute a tilt sensor.

7-10. (Canceled)

1 11. (Previously presented): The system of claim 1, wherein said at least one
2 stationary contact is printed on said printed circuit board.

1 12. (Previously presented): The system of claim 1, wherein said at least one
2 stationary contact has a hole in a center thereof.

1 13. (Previously presented): The system of claim 1, wherein the at least one
2 stationary contact has an inclined surface toward a center thereof.

1 14. (Previously presented): The system of claim 6, wherein a sensitivity of
2 said tilt sensor is adjustable during manufacture of said tilt sensor.

1 15. (Previously presented): The system of claim 6, wherein said contact pad
2 has a hole in a center thereof, and a sensitivity of said tilt sensor is adjusted by a size of the hole.

1 16. (Previously presented): The system of claim 14, wherein the sensitivity of
2 said tilt sensor is adjustable by a size of the ball contact.

1 17. (Previously presented): The system of claim 14, wherein the sensitivity of
2 said tilt sensor is adjustable by a weight of the ball contact.

1 18. (Previously presented): The system of claim 14, wherein the sensitivity of
2 said tilt sensor is adjustable by a conductivity of the ball contact.

19. (Canceled)

1 20. (Previously presented): The system of claim 6, wherein the plurality of
2 stationary contacts are wedge-shaped elements arranged about a central point.

- 1 21. (Previously presented): The system of claim 6, wherein there are at least 2
2 stationary contacts.
- 1 22. (Withdrawn, previously presented): The system of claim 6, wherein there
2 are at least 4 stationary contacts.
- 1 23. (Withdrawn, previously presented): The system of claim 6, wherein there
2 are at least 6 stationary contacts.
- 1 24. (Withdrawn, previously presented): The system of claim 6, wherein there
2 are at least 8 stationary contacts.
- 1 25. (Previously presented): The system of claim 6, wherein said ball contact
2 is a conductive ball.
- 1 26. (Previously presented): The system of claim 6, wherein the ball contact is
2 gold-plated.
- 1 27. (Previously presented): The system of claim 6, wherein said stationary
2 contact is gold-plated.
- 1 28. (Original): The system of claim 1, wherein said motion sensor further
2 includes a housing and said housing is sealed.
- 1 29. (Withdrawn): The system of claim 28, wherein said housing is sealed
2 with an O-ring.
- 1 30. (Original): The system of claim 28, wherein said housing is sealed with
2 an adhesive.

1 31. (Previously presented): The system of claim 1, wherein said contact pad
2 and ball contact constitute an electrical switch and said detection circuit detects a change in a
3 state of whether said switch is opened or closed.

1 32. (Previously presented): The system of claim 31, wherein said detection
2 circuit comprises: a motion detector that determines if there is a change in the opened or closed
3 state of the electrical switch; and a signal processing circuit having a latch circuit, wherein said
4 latch circuit creates a signal of a particular level for a period of time to generate a wake-up
5 signal.

33-35. (Canceled)

1 36. (Withdrawn): A method for operating an input device, wherein the
2 device includes a printed circuit board, comprising:
3 operatively coupling a motion sensor to said printed circuit board, said motion
4 sensor comprising:
5 a ball contact; and
6 at least one stationary contact formed directly on a surface of said printed circuit
7 board of said device,
8 wherein said ball contact is in electrical contact with said at least one stationary
9 contact;
10 outputting a motion signal from said motion sensor;
11 providing a detection circuit responsive to said motion signal; and
12 outputting a wake-up signal from said detection circuit to circuitry of said input
13 device to activate said input device.

1 37. (Withdrawn): The method of claim 36, wherein said input device further
2 comprises a microprocessor and said microprocessor wakes-up the input device in response to
3 said wake-up signal from said detection circuit.

Appl. No. 10/714,095
Amdt. dated November 9, 2010
Reply to Office Action of June 30, 2010

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38. (Canceled)